



**(43) International Publication Date**  
**15 September 2005 (15.09.2005)**

**PCT**

**(10) International Publication Number**  
**WO 2005/085450 A1**

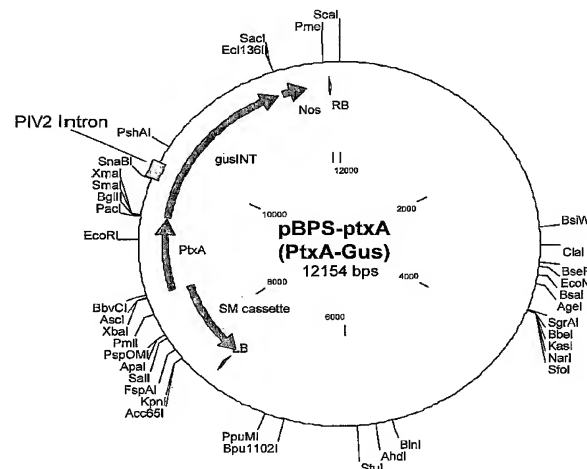
- (51) **International Patent Classification<sup>7</sup>:** **C12N 15/82,**  
5/10, A01H 5/00
- (21) **International Application Number:**  
PCT/EP2005/002052
- (22) **International Filing Date:** 26 February 2005 (26.02.2005)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
60/548,911 1 March 2004 (01.03.2004) US  
60/591,452 27 July 2004 (27.07.2004) US
- (71) **Applicant** (*for all designated States except US*): **BASF Plant Science GMBH** [DE/DE]; 67056 Ludwigshafen (DE).
- (72) **Inventors; and**
- (75) **Inventors/Applicants** (*for US only*): **SONG, Hee-Sook** [KR/US]; 1504 Pineview Drive, Raleigh, NC 27606 (US). **ROCHE, Christina, E.** [US/US]; 50 Longwood Drive, Youngsville, NC 27596 (US). **MORRA, Marc**

[US/US]; 3208 C. Shire Lane, Raleigh, NC 27607 (US). **DAMMANN, Christian** [DE/US]; 4205 Pine Bark Trail, Durham, NC 27705 (US). **JENSEN, Timothy, C.** [US/US]; 103 Ridge Hollow Court, Cary, NC 27513 (US). **DOBSON, Alleson** [US/US]; 502 Pebble Creek Drive, Cary, NC 27511 (US).

- (74) **Agent:** PRESSLER, Uwe; c/o BASF Aktiengesellschaft, 67056 Ludwigshafen (DE).
- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

- (54) Title:** TRANSGENIC EXPRESSION CONSTRUCTS FOR VEGETATIVE PLANT TISSUE SPECIFIC EXPRESSION OF NUCLEIC ACIDS



- (S7) Abstract:** The invention relates to transgenic expression constructs and vectors comprising plant promoters with a non-seed tissue, preferably vegetative plant tissue specific expression profile, and the use of these transgenic expression constructs or vectors for the transgenic expression of nucleic acid sequences in plants. More preferably, the promoters of the invention are the the promoter of the *Pisum sativum* ptxA gene, or the promoter of the *Glycine* max extensin (SbHRGP3) gene, and functional equivalent fragments and functional equivalent homologs thereof, or their complements, having essentially the same promoter activity. The invention furthermore relates to transgenic plants and plant cells transformed with these expression constructs or vectors, to cultures, parts or propagation material derived therefrom, and to the use of same for the preparation of foodstuffs, animal feeds, seed, pharmaceuticals or fine chemicals, to improve plant biomass, yield, or provide desirable phenotypes.



FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments*

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*